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SEQUENCE LISTING

<110> BEAUVILLAIN, JEAN-CLAUDE
COULOUARN, YOLAINE
JEGOU, SYLVIE
LIHRMANN, ISABELLE
VAUDRY, HUBERT

<120> MAMMALIAN UROTENSINS II AND APPLICATIONS THEREOF

<130> 208888USOPCT

<140> 09/831,907

<141> 1999-11-26

<150> FR 98/14914

<151> 1998-11-26

<160> 64

<170> PatentIn version 3.1

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Met Tyr Lys Leu Ala Ser Cys Cys Leu Leu Phe Ile Gly Phe Leu Asn
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Pro Leu Leu Ser Leu Pro Leu Leu Asp Ser Arg Glu Ile Ser Phe Gln
20 25 30

Leu Ser Ala Pro His Glu Asp Ala Arg Leu Thr Pro Glu Glu Leu Glu
35 40 45

Arg Ala Ser Leu Leu Gln Ile Leu Pro Glu Met Leu Gly Ala Glu Arg
50 55 60

Gly Asp Ile Leu Arg Lys Ala Asp Ser Ser Thr Asn Ile Phe Asn Pro
65 70 75 80

Arg Gly Asn Leu Arg Lys Phe Gln Asp Phe Ser Gly Gln Asp Pro Asn
85 90 95

Ile Leu Leu Ser His Leu Leu Ala Arg Ile Trp Lys Pro Tyr Lys Lys

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105

110

Arg Glu Thr Pro Asp Cys Phe Trp Lys Tyr Cys Val
 115 120

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His Glu Asp Ala Arg Leu Thr Pro Glu Glu Leu Glu Arg Ala Ser Leu
 20 25 30

Leu Gln Ile Leu Pro Glu Met Leu Gly Ala Glu Arg Gly Asp Ile Leu
 35 40 45

Arg Lys Ala Asp Ser Ser Thr Asn Ile Phe Asn Pro Arg Gly Asn Leu
 50 55 60

Arg Lys Phe Gln Asp Phe Ser Gly Gln Asp Pro Asn Ile Leu Leu Ser
 65 70 75 80

His Leu Leu Ala Arg Ile Trp Lys Pro Tyr Lys Lys Arg Glu Thr Pro
 85 90 95

Asp Cys Phe Trp Lys Tyr Cys Val
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 acaagaaacg tgagactcct gattgcttct ggaaatactg tgtctgaagt gaaataagca 420
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atgtctcttc agcttccagt gcttgaggaa aatgctcttc gggctctgga ggagctggag 180
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ggcacagaag cagaggggaag ccttggccag gcagatccca gtgccgagac tcccactcca 180
aggggaagct tgaggaaggc tctcactggg caagattcta aactgtact gagccgtctt 240
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agcttccagt gcttgaggaa 20

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gttagaattt tgcccagcga 20

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gcccgttggt ctctcagaac cattacattc aggaaacggg cagagcagat gcttgaagca 480
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ggcacggaag caggggagag ccctggagaa gcaggtccca gcactgagac tcccactcca 180
cggggaagca tgaggaaggc tttcgctggg caaaattcta acactgtact gagtcgtctc 240
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tactgcattt gaggagacac aagcgcccgt tggctcttca gaaccattac attcaggaaa 360
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ggcacggaag caggggagag ccctggagaa gcaggtccca gcactgagac tcccactcca 180
cggggaagca tgaggaaggc tttcgctggg caaaattcta acactgtact gagtcgtctc 240
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Pro Leu Leu Ser Phe Pro Val Thr Asp Thr Gly Glu Met Ser Leu Gln
20 25 30

Leu Pro Val Leu Glu Glu Asn Ala Leu Arg Ala Leu Glu Glu Leu Glu
35 40 45

Arg Thr Ala Leu Leu Gln Thr Leu Arg Gln Thr Val Gly Thr Glu Ala
50 55 60

Glu Gly Ser Leu Gly Gln Ala Asp Pro Ser Ala Glu Thr Pro Thr Pro
65 70 75 80

Arg Gly Ser Leu Arg Lys Ala Leu Thr Gly Gln Asp Ser Asn Thr Val
85 90 95

Leu Ser Arg Leu Leu Ala Arg Thr Arg Lys Gln Arg Lys Gln His Gly
100 105 110

Thr Ala Pro Glu Cys Phe Trp Lys Tyr Cys Ile
115 120

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Glu Glu Asn Ala Leu Arg Ala Leu Glu Glu Leu Glu Arg Thr Ala Leu
20 25 30

Leu Gln Thr Leu Arg Gln Thr Val Gly Thr Glu Ala Glu Gly Ser Leu
35 40 45

Gly Gln Ala Asp Pro Ser Ala Glu Thr Pro Thr Pro Arg Gly Ser Leu
50 55 60

Arg Lys Ala Leu Thr Gly Gln Asp Ser Asn Thr Val Leu Ser Arg Leu
65 70 75 80

Leu Ala Arg Thr Arg Lys Gln Arg Lys Gln His Gly Thr Ala Pro Glu
85 90 95

Cys Phe Trp Lys Tyr Cys Ile
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Gln His Gly Thr Ala Pro Glu Cys Phe Trp Lys Tyr Cys Ile
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<223> SYNTHETIC PEPTIDE

<400> 33

Met Asp Arg Val Pro Phe Cys Cys Leu Leu Phe Ile Gly Leu Leu Asn
1 5 10 15

Pro Leu Leu Ser Leu Pro Val Thr Asp Thr Gly Glu Arg Thr Leu Gln
20 25 30

Leu Pro Val Leu Glu Glu Asp Ala Leu Arg Ala Leu Glu Glu Leu Glu
35 40 45

Arg Met Ala Leu Leu Gln Thr Leu Arg Gln Thr Met Gly Thr Glu Ala
50 55 60

Gly Glu Ser Pro Gly Glu Ala Gly Pro Ser Thr Glu Thr Pro Thr Pro
65 70 75 80

Arg Gly Ser Met Arg Lys Ala Phe Ala Gly Gln Asn Ser Asn Thr Val
85 90 95

Leu Ser Arg Leu Leu Ala Arg Thr Arg Lys Gln His Lys Gln His Gly
100 105 110

Ala Ala Pro Glu Cys Phe Trp Lys Tyr Cys Ile
115 120

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Leu Pro Val Thr Asp Thr Gly Glu Arg Thr Leu Gln Leu Pro Val Leu
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Glu Glu Asp Ala Leu Arg Ala Leu Glu Glu Leu Glu Arg Met Ala Leu
20 25 30

Leu Gln Thr Leu Arg Gln Thr Met Gly Thr Glu Ala Gly Glu Ser Pro
35 40 45

Gly Glu Ala Gly Pro Ser Thr Glu Thr Pro Thr Pro Arg Gly Ser Met
50 55 60

Arg Lys Ala Phe Ala Gly Gln Asn Ser Asn Thr Val Leu Ser Arg Leu
65 70 75 80

Leu Ala Arg Thr Arg Lys Gln His Lys Gln His Gly Ala Ala Pro Glu
85 90 95

Cys Phe Trp Lys Tyr Cys Ile
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<400> 35

Gln His Gly Ala Ala Pro Glu Cys Phe Trp Lys Tyr Cys Ile
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tctcatagtg gagaacgggg

20

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 ggaagcttga ggaaggctct 20

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 agcttccagt gcttgaggaa 20

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 tgcctgctct tcgtaggact 20

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<400> 43
gtgcccacgg tctggcgcag cgtctgcagg

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<400> 46

Met Ser Lys Leu Phe Phe Cys Cys Leu Ile Leu Ala Gly Ser Phe Cys
1 5 10 15

Ser Phe Arg Ser Leu Pro Ile Ile Val Pro Ser Lys Gly Ser Glu Ser

20

25

30

Leu Arg Leu Ser Glu Ser Ala Leu Asp Phe Gly Asp Leu Lys Ser Trp
 35 40 45

Asp Asp Glu Thr Arg Leu Leu Arg Asn Leu Pro Met Phe Val Asp Lys
 50 55 60

Glu Ala Glu Arg Asp Ala Glu Asp Ile Phe Ser Lys Glu Gly Phe Gly
 65 70 75 80

Leu Asp Ala Tyr Asn Met Asp Asp Lys Glu Glu Leu Phe Asp Lys His
 85 90 95

Pro Arg Ile Ser Leu Leu Ser Arg Leu Gln Ser Lys Asp Arg Lys Gln
 100 105 110

Phe Lys Lys Arg Ala Gly Asn Leu Ser Glu Cys Phe Trp Lys Tyr Cys
 115 120 125

Val

<210> 47
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<400> 47

Met Met Cys Asn Leu Leu Leu Ser Phe Ser Val Leu Leu Leu Ser Cys
 1 5 10 15

Thr His Leu Val Ala His Pro Val Thr Asp Thr Ala Asp Met Thr Tyr
 20 25 30

Ser Gly Pro Asp Ser Val Glu Glu Ala Gly Gly Val Ser Pro Asp Asp
 35 40 45

Phe Ala Val Ser Asp Leu Asn Asp Leu Leu Gln Arg Ala Ala Val Val
 50 55 60

Glu Tyr Ser Pro Leu Leu Ser Arg Glu Asn Ile Lys Val Pro Gly Gln
65 70 75 80

Ile Pro Lys Glu Ala Leu Arg Glu Leu Leu Leu Glu Lys Pro Tyr Arg
85 90 95

Leu Ile Pro Pro Ser Gly Leu Trp Gly Ser Arg Arg Gln Phe Arg Lys
100 105 110

Arg Gly Gly Gly Ala Asp Cys Phe Trp Lys Tyr Cys Val
115 120 125

<210> 48
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<213> ARTIFICIAL SEQUENCE

<220>
<223> SYNTHETIC PEPTIDE

<400> 48

Met Met Cys Asn Leu Leu Leu Ser Cys Ser Val Leu Leu Leu Ser Cys
1 5 10 15

Ser His Leu Leu Ala His Pro Val Thr Asp Thr Ala Asp Met Thr Tyr
20 25 30

Ser Gly Pro Asp Ser Val Glu Glu Ala Gly Gly Val Asn Pro Asp Asp
35 40 45

Phe Ser Val Ser Asp Leu Asn Glu His Leu Gln Arg Ala Ala Val Ala
50 55 60

Gly Tyr Ser Pro Leu Phe Ser Gln Glu Asn Ile Lys Val Pro Gly Gln
65 70 75 80

Ile Pro Lys Glu Ala Leu Arg Glu Leu Leu Leu Glu Lys Pro Tyr Arg
85 90 95

Leu Ile Pro Pro Arg Gly Leu Trp Gly Ser Arg Arg Gln Phe Arg Lys
100 105 110

Arg Gly Gly Gly Ala Asp Cys Phe Trp Lys Tyr Cys Ile
115 120 125

<210> 49
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<212> PRT
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<220>
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Glu Thr Pro Asp Cys Phe Trp Lys Tyr Cys Val
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<210> 50
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<400> 50

Ala Gly Asn Leu Ser Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 51
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<400> 51

Ala Gly Asn Ala Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 52
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<220>
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<400> 52

Gly Gly Asn Ser Glu Cys Phe Trp Lys Tyr Cys Val
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<400> 53

Gly Ser Gly Ala Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 54
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<400> 54

Gly Ser Asn Thr Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 55
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<400> 55

Gly Gly Gly Ala Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 56
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<400> 56

Gly Gly Asn Thr Glu Cys Phe Trp Lys Tyr Cys Val
1 5 10

<210> 57

<211> 12
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Gly Ser Asn Thr Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 58
<211> 12
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<223> SYNTHETIC PEPTIDE

<400> 58

Gly Gly Gly Ala Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 59
<211> 12
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<400> 59

Ala Gly Gly Thr Glu Cys Phe Trp Lys Tyr Cys Val
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<210> 60
<211> 12
<212> PRT
<213> ARTIFICIAL SEQUENCE

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<400> 60

Gly Ser Thr Ser Glu Cys Phe Trp Lys Tyr Cys Val
1 5 10

<210> 61
<211> 12

<212> PRT
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Gly	Ser	Thr	Ser	Glu	Cys	Phe	Trp	Lys	Tyr	Cys	Val
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Asn	Asn	Phe	Ser	Glu	Cys	Phe	Trp	Lys	Tyr	Cys	Val
1				5					10		

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<400> 63

Asn	Asn	Phe	Ser	Glu	Cys	Phe	Trp	Lys	Tyr	Cys	Val
1				5					10		

<210> 64
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<400> 64

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1				5					10		